

Title (en)
METHOD OF MANUFACTURING MULTI-LAYER THIN FILM, MEMBER INCLUDING THE SAME AND ELECTRONIC PRODUCT INCLUDING THE SAME

Title (de)
VERFAHREN ZUR HERSTELLUNG EINES MEHRSCICHTIGEN DÜNNFILMS, ELEMENT DAMIT UND ELEKTRONISCHES PRODUKT DAMIT

Title (fr)
PROCÉDÉ DE FABRICATION D'UN FILM MINCE MULTICOUCHE, ORGANE COMPRENANT CE DERNIER ET PRODUIT ÉLECTRONIQUE COMPRENANT CE DERNIER

Publication
EP 3004416 A4 20170215 (EN)

Application
EP 14804120 A 20140509

Priority

- KR 20130062485 A 20130531
- KR 20130078133 A 20130704
- KR 20130131650 A 20131031
- KR 2014004149 W 20140509

Abstract (en)
[origin: US2014355183A1] A method of manufacturing a multi-layer thin film is provided. The method includes modifying a surface of a plastic object by plasma treatment, depositing at least one hardness-enhancing layer on the plastic object, and depositing a color layer on the hardness-enhancing layer. The method may further include depositing a protective layer on the color layer.

IPC 8 full level
C23C 14/35 (2006.01); **C23C 14/02** (2006.01); **C23C 14/06** (2006.01); **C23C 14/20** (2006.01); **C23C 28/00** (2006.01)

CPC (source: EP KR US)
C23C 14/0015 (2013.01 - EP US); **C23C 14/02** (2013.01 - KR); **C23C 14/022** (2013.01 - EP US); **C23C 14/0641** (2013.01 - EP US); **C23C 14/205** (2013.01 - EP US); **C23C 14/34** (2013.01 - KR); **C23C 14/35** (2013.01 - EP US); **C23C 28/00** (2013.01 - KR); **H05K 5/0243** (2013.01 - EP US); **Y10T 428/31544** (2015.04 - EP US); **Y10T 428/31678** (2015.04 - EP US)

Citation (search report)

- [X] US 2003203219 A1 20031030 - LIN CHI-FANG [TW], et al
- [X] US 4247600 A 19810127 - ADACHI IWAO P
- [X] US 6399219 B1 20020604 - WELTY RICHARD P [US], et al
- [X] US 5589280 A 19961231 - GIBBONS KEVIN P [US], et al
- [X] US 2005185518 A1 20050825 - KAWAKAMI ATSUSHI [JP], et al
- [X] US 5372685 A 19941213 - ANSHEL MORRIS [US]
- [X] US 6235411 B1 20010522 - BLACKWELL KIM JOSEPH [US], et al
- [A] US 2012077002 A1 20120329 - CHANG HSIN-PEI [TW], et al
- See references of WO 2014193097A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
US 2014355183 A1 20141204; CN 105229195 A 20160106; EP 3004416 A1 20160413; EP 3004416 A4 20170215; KR 20140142123 A 20141211; MX 2015014976 A 20160205; WO 2014193097 A1 20141204

DOCDB simple family (application)
US 201414287704 A 20140527; CN 201480027841 A 20140509; EP 14804120 A 20140509; KR 20130131650 A 20131031; KR 2014004149 W 20140509; MX 2015014976 A 20140509